

PROJECT DESCRIPTION

GENERAL [1] FLASHING RED LEFT TURN SIGNAL FOR NB MD 85 ONLY
THIS PROJECT INVOLVES CHANGING THE LEFT TURN PHASING FOR MD 85 FROM EXCLUSIVE/PERMISSIVE TO EXCLUSIVE AT THE INTERSECTION OF MD 85 (BUCKEYSTOWN PIKE) AT GUILFORD DRIVE IN FREDERICK COUNTY. ALSO, THE EXISTING VEHICULAR TRAFFIC SIGNAL HEADS ON MD 85 WILL BE UPGRADED WITH NEW BLACK-FACED LED SIGNAL HEADS. MD 85 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION
THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE. THE EXISTING MAINLINE EXCLUSIVE/PERMISSIVE LEFT TURN PHASING WILL BE REPLACED WITH EXCLUSIVE PHASING WITH A LEAD/LAG PHASE FOR THE NORTHBOUND LEFT TURN MOVEMENT. THE SIDE STREET SPLIT PHASING WILL CHANGE SO THAT GUILFORD DRIVE BECOMES PHASE 4 AND THE DRIVEWAY ENTRANCE BECOMES PHASE 3.

[1] FLASHING RED LEFT TURN SIGNAL FOR NB MD 85 ONLY
CONTROLLER REQUIREMENTS
THE EXISTING BASE MOUNTED CABINET, ASSOCIATED HARNESSSES, AND LOOP DETECTOR AMPLIFIERS SHALL REMAIN.

THE CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

Mr. John Concannon
Assistant District Engineer - Traffic
Phone: 301-624-8140/8141

Ms. Andrea Abend
Assistant District Engineer - Utility
Phone: 301-624-8105/8116

Mr. Raymond Johnson
Assistant District Engineer - Maintenance
Phone: 301-624-8105/8106

Mr. Edward Rodenhizer
Chief, SHA Signal Shop
Phone: 410-787-7650

Mr. Richard L. Daff Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
9571	[1] 108 SF	[UPDATED] SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN
	2 EA	D-3(2) (96 IN. x 16 IN.) 'BUCKEYSTOWN PIKE'
	2 EA	D-3(2) (96 IN. x 16 IN.) 'GUILFORD DR'
	1 EA	ASSOCIATED SHIELD ASSEMBLY (24 IN. x 51 IN.) 'SOUTH, MD 85, RIGHT ARROW'
	1 EA	ASSOCIATED SHIELD ASSEMBLY (24 IN. x 51 IN.) 'NORTH, MD 85, RIGHT ARROW'
	1 EA	ASSOCIATED SHIELD ASSEMBLY (36 IN. x 75 IN.) 'SOUTH, MD 85, LEFT ARROW'
	1 EA	ASSOCIATED SHIELD ASSEMBLY (36 IN. x 75 IN.) 'NORTH, MD 85, LEFT ARROW'
	[1] 1 EA	R10-12(4) (36 IN. x 42 IN.)

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
8001	[1] 25 EA	12 INCH (R,Y,G) LED SIGNAL HEAD SECTION
8017	1 EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8046	[1] 108 SF	INSTALL OVERHEAD SIGN
8060	[1] 60 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8061	[1] 800 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

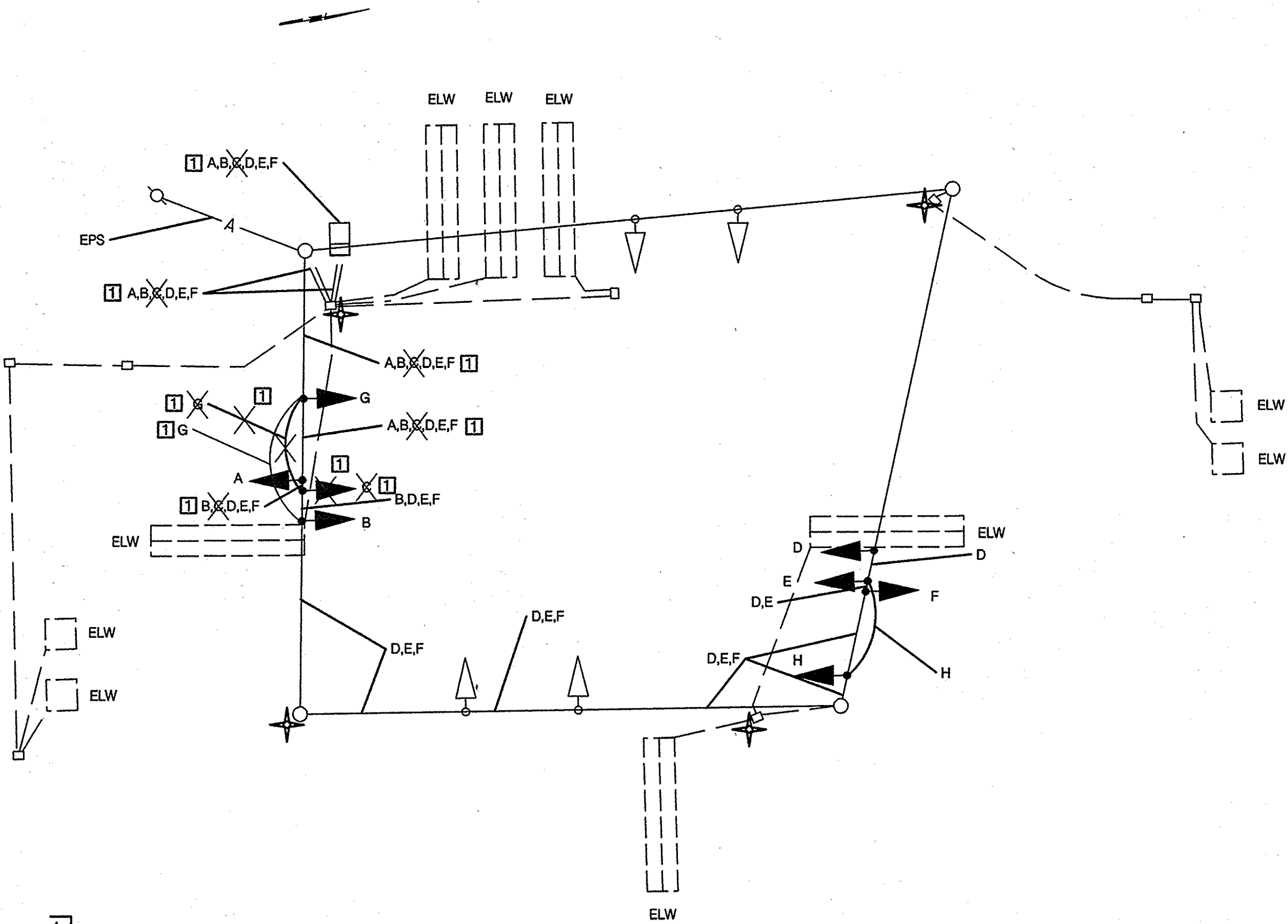
EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO QUANTITY DESCRIPTION

NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

WIRING DIAGRAM



[1] ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

ELW - EXISTING LOOP WIRE

EPS - EXISTING POWER SERVICE

[1] EXISTING GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH.

[G] ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	
PHASE 1 AND 5	←G←	←G←	R	R	←G←	←G←	R	R	R	R/G→	R	R	
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6													
PHASE 1 AND 6	←G←	←G←	G	G	R	R	R	R	R	R/G→	R	R	
1 AND 6 CHANGE	←Y←	←Y←	Y	Y	R	R	R	R	R	R/Y→	R	R	
PHASE 2 AND 5	←R←	←R←	R	R	←G←	←G←	G	G	R	R	R	R	
2 AND 5 CHANGE	←R←	←R←	R	R	←Y←	←Y←	Y	Y	R	R	R	R	
PHASE 2 AND 6	FL/RA	FL/RA	G	G	R	R	G	G	R	R	R	R	
2 AND 6 CHANGE	←R←	←R←	Y	Y	R	R	Y	Y	R	R	R	R	
PHASE 1 AND 6	←G←	←G←	G	G	R	R	R	R	R	R/G→	R	R	
1 AND 6 CHANGE	←Y←	←Y←	Y	Y	R	R	R	R	R	R/Y→	R	R	
PHASE 3	←R←	←R←	R	R	R	R	R	R	R	←G←	G	G	
PHASE 3 CHANGE	←R←	←R←	R	R	R	R	R	R	R	Y	Y	Y	
PHASE 4	←R←	←R←	R	R	R	R	R	R	←G←	G/G→	R	R	
PHASE 4 CHANGE	←R←	←R←	R	R	R	R	R	R	Y	Y/Y→	R	R	
FLASHING OPERATION	FL/RA	FL/RA	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	

[1] REDLINE REVISION 11-16-2007



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 85 (BUCKEYSTOWN PIKE)
AT GUILFORD DRIVE

GENERAL INFORMATION

SCALE NONE DATE 4/2007 CONTRACT NO. AT9255185

DESIGNED BY MCG COUNTY FREDERICK
DRAWN BY MCG LOGMILE 10008509.90
CHECKED BY BAB T.I.M.S. NO. 1032
F.A.P. NO. TOD NO.

DRAWING NO. TS-3501B-GI SHEET NO. 2 OF 2